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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/748,430	12/26/2000	Kwan-Lae Kim	5000-1-182	4460	
33942	7590 01/0		EXAM	EXAMINER	
CHA & REITER, LLC 210 ROUTE 4 EAST			BELLO, A	BELLO, AGUSTIN	
	NJ 07652		ART UNIT	PAPER NUMBER	
•	•		2633	.4	
			DATE MAILED: 01/05/200-	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		09/748,430	KIM ET AL.			
•	Office Action Summary	Examiner	Art Unit			
		Agustin Bello	2633			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
THE I - External after - If the - If NC - Failur - Any I	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION.  SIX (6) MONTHS from the mailing date of this communication.  Period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ti y within the statutory minimum of thirty (30) da vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONI	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).			
1)[	Responsive to communication(s) filed on					
2a) <u></u> ☐	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4)🖂	4)⊠ Claim(s) <u>1-3</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)	5) Claim(s) is/are allowed.					
· —	Claim(s) <u>1-3</u> is/are rejected.					
	Claim(s) is/are objected to.					
8)[]	Claim(s) are subject to restriction and/or	r election requirement.				
Applicati	on Papers					
9) The specification is objected to by the Examiner.						
10)🛛	10)⊠ The drawing(s) filed on <u>26 December 2000</u> is/are: a)⊠ accepted or b)☐ objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. §§ 119 and 120						
<ul> <li>12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a)  All b)  Some * c)  None of:</li> <li>1.  Certified copies of the priority documents have been received.</li> <li>2.  Certified copies of the priority documents have been received in Application No</li> <li>3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> <li>13)  Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet.</li> <li>37 CFR 1.78.</li> <li>a)  The translation of the foreign language provisional application has been received.</li> <li>14)  Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.</li> </ul> Attachment(s)						
1) 🛛 Notic	e of References Cited (PTO-892)	4) Interview Summary	(PTO-413) Paper No(s)			
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal F	Patent Application (PTO-152)			

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-3 are rejected under 35 U.S.C. 102(e) as being anticipated by Tai (U.S. Patent 6,341,040).

Regarding claim 1, Tai teaches a node system for increasing the capacity of a wavelength division multiplexing (WDM) system, comprising: means for interleaving (reference numeral 1020 in Figure 10) a plurality of optical signals received therein into a predetermined number of channels; at least one demultiplexer (reference numeral 1030 in Figure 10) coupled to one of the

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output of said channels for demultiplexing said optical signals received via said one output into a prescribed number of channels; at least one multiplexer (reference numeral 1040 in Figure 10) for multiplexing the respective demultiplexed optical signals outputted from said prescribed channels of said demultiplexer; and, means for deinterleaving (reference numeral 1050 in Figure 10) said optical signal outputted from said multiplexer to be forwarded to a next node.

Regarding claim 2, Tai teaches a node system for increasing the capacity of a wavelength division multiplexing (WDM) system, comprising: means for interleaving a plurality of optical signals received therein into a predetermined number of channels (reference numeral 1020 in Figure 10); a plurality of demultiplexers (reference numeral 1030, 1035 in Figure 10) coupled to the respective output of said predetermined channels for demultiplexing the output optical signal from said respective channel into a prescribed number of channels; a plurality of multiplexers (reference numeral 1040, 1045 in Figure 10) for multiplexing the respective demultiplexed optical signals from said plurality of demultiplexers; and, means for deinterleaving said optical signals outputted from the respective output of said plurality of multiplexers to be forwarded to a next node (reference numeral 1050 in Figure 10).

Regarding claim 3, Tai teaches a method for increasing the capacity of a wavelength division multiplexing (WDM) system of the type having a pair of interleaver and deinterleaver and at least one pair of multiplexer and demultiplexer disposed between said interleaver and said deinterleaver, the method comprising the steps of upon receiving a plurality of optical signals from different sources by said interleaver, interleaving said received optical signals into a predetermined number of channels; demultiplexing, by said demultiplexer, said interleaved optical signals received from the respective said predetermined channel into a prescribed number

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of channels; multiplexing, by said multiplexer, said demultiplexed optical signals received from the respective said prescribed channel of said demultiplexer; and, deinterleaving said multiplexed optical signals into one transmission channel to be forwarded to a next node. (as seen in Figures and discussed above).

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Agustin Bello whose telephone number is (703)308-1393. The examiner can normally be reached on M-F 8:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Chan can be reached on (703)305-4729. The fax phone number for the organization where this application or proceeding is assigned is (703)872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)305-3900.

AB

JASON CHAN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600